

**ALPHABETICAL INDEX
TO THE COMMERCE CONTROL LIST**

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| Description | ECCN Citation |
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| Description | ECCN Citation |
|---|---------------|
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| Description | ECCN Citation |
|---|-------------------|
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| Description | ECCN Citation |
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| Description | ECCN Citation |
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| Modeccin toxin | 1C351.d.10 |
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| Description | ECCN Citation |
|--|------------------|
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| Description | ECCN Citation |
|--|---|
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| Description | ECCN Citation |
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| 0C004 | Deuterium, heavy water, deuterated paraffins and other compounds of deuterium, and mixtures and solutions containing deuterium, in which the isotopic ratio of deuterium to hydrogen exceeds 1:5000 |
| 0C005 | Graphite, nuclear-grade, having a purity level of less than 5 parts per million “boron equivalent” and with a density greater than 1.5 g/cm ³ |
| 0C006 | Nickel powder or porous nickel metal, specially prepared for the manufacture of gaseous diffusion barriers |
| 0C201 | Specially prepared compounds or powders, other than nickel, resistant to corrosion by UF ₆ (e.g. aluminum oxide and fully fluorinated hydrocarbon polymers), for the manufacture of gaseous diffusion barriers, having a purity of 99.9 weight percent or more and a mean particle size of less than 10 micrometers measured by American Society for Testing and Materials (ASTM) B330 standard and a high degree of particle size uniformity |
| 0D001 | “Software” specially designed or modified for the “development”, “production” or “use” of goods controlled by this Category |

| ECCN | Description |
|-------|--|
| 0D999 | Specific software |
| 0E001 | “Technology” according to the Nuclear Technology Note for the “development”, “production” or “use” of items controlled by this Category |
| 0E018 | “Technology” for the “development”, “production”, or “use” of items controlled by 0A018 |
| 0E918 | “Technology” for the “development”, “production”, or “use” of bayonets |
| 0E982 | “Technology” exclusively for the “development” or “production” of equipment controlled by 0A982 or 0A985. |
| 0E984 | “Technology” for the “development” or “production” of shotguns controlled by 0A984 and buckshot shotgun shells. |
| | Category 1 - Special Materials and Related Equipment, Chemicals, "Microorganisms," and "Toxins" |
| 1A001 | Components made from fluorinated compounds |
| 1A002 | “Composite” structures or laminates |
| 1A003 | Manufactures of non-“fusible” aromatic polyimides in film, sheet, tape or ribbon form having any of the following (see List of Items Controlled) |
| 1A004 | Protective and detection equipment and components, not specially designed for military use, as follows (see List of Items Controlled) |
| 1A005 | Body armor, and specially designed components therefor, not manufactured to military standards or specifications, nor to their equivalents in performance |
| 1A006 | Equipment, specially designed or modified for the disposal of improvised explosive devices, as follows (see List of Items Controlled), and specially designed components and accessories therefor |
| 1A007 | Equipment and devices, specially designed to initiate charges and devices containing energetic materials, by electrical means, as follows (see List of Items Controlled) |
| 1A008 | Charges, devices and components, as follows (see List of Items Controlled) |
| 1A101 | Devices for reduced observables such as radar reflectivity, ultraviolet/infrared signatures and acoustic signatures, for applications usable in “missiles” and their subsystems |
| 1A102 | Resaturated pyrolyzed carbon-carbon components designed for rockets, missiles, or unmanned aerial vehicles capable of achieving a “range” equal to or greater than 300km. (These items are subject to the export licensing authority of the U.S. Department of State, Directorate of Defense Trade Controls. See 22 CFR part 121) |
| 1A202 | Composite structures, other than those controlled by 1A002, in the form of tubes with an inside diameter of between 75 mm and 400 mm made with any of the “fibrous or filamentary materials” specified in 1C210.a or with carbon prepreg materials controlled by 1C210.c |
| 1A225 | Platinized catalysts specially designed or prepared for promoting the hydrogen isotope exchange reaction between hydrogen and water for the recovery of tritium from heavy water or for the production of heavy water |
| 1A226 | Specialized packings for use in separating heavy water from ordinary water and made of phosphor bronze mesh (chemically treated to improve wettability) and designed for use in vacuum distillation towers |
| 1A227 | High-density (lead glass or other) radiation shielding windows greater than 0.09 m ² on cold area and with a density greater than 3 g/cm ³ and a thickness of 100 mm or greater; and specially designed frames therefor |
| 1A290 | Depleted uranium (any uranium containing less than 0.711% of the isotope U-235) in shipments of more than 1,000 kilograms in the form of shielding contained in X-ray units, radiographic exposure or teletherapy devices, radioactive thermoelectric generators, or packaging for the transportation of radioactive materials |
| 1A984 | Chemical agents, including tear gas formulation containing 1 percent or less of orthochlorobenzalmalononitrile (CS), or 1 percent or less of chloroacetophenone (CN), <i>except in individual containers with a net weight of 20 grams or less</i> ; smoke bombs; non-irritant smoke flares, canisters, grenades and charges; and other pyrotechnic articles having dual military and commercial use |
| 1A985 | Fingerprinting powders, dyes, and inks |
| 1A995 | Protective and detection equipment and components not specially designed for military use and not controlled by ECCN 1A004 or ECCN 2B351 |
| 1A999 | Specific processing equipment |
| 1B001 | Equipment for the production or inspection of “composite” structures or laminates controlled by 1A002 or “fibrous or filamentary materials” controlled by 1C010, as follows (see List of Items Controlled), and specially designed components and accessories therefor. |
| 1B002 | Equipment for producing metal alloys, metal alloy powder or alloyed materials, specially designed to avoid contamination and specially designed for use in one of the processes specified in 1C002.c.2 |
| 1B003 | Tools, dies, molds or fixtures, for “superplastic forming” or “diffusion bonding” titanium, aluminum or their alloys, specially designed for the manufacture of any of the following (see List of Items Controlled) |
| 1B018 | Equipment on the Wassenaar Arrangement Munitions List |
| 1B101 | Equipment, other than that controlled by 1B001, for the “production” of structural composites, fibers, preprints or preforms as follows (see List of Items Controlled); and specially designed components, and accessories therefor |
| 1B102 | Metal powder “production equipment,” other than that specified in 1B002, and components as follows (see List of Items Controlled) |
| 1B115 | Equipment, other than that controlled in 1B002 or 1B102, for the “production” of propellant or propellant constituents, and specially designed components therefor |

| ECCN | Description |
|-------|--|
| 1B116 | Specially designed nozzles for producing pyrolytically derived materials formed on a mold, mandrel or other substrate from precursor gases which decompose in the 1,573 K (1,300 °C) to 3,173 K (2,900 °C) temperature range at pressures of 130 Pa to 20 kPa |
| 1B117 | Batch mixers with provision for mixing under vacuum in the range from zero to 13.326 kPa and with temperature control capability of the mixing chamber and having all of the following characteristics (see List of Items Controlled), and specially designed components therefor |
| 1B118 | Continuous mixers with provision for mixing under vacuum in the range from zero to 13.326 kPa and with temperature control capability of the mixing chamber and having all of the following characteristics (see List of Items Controlled), and specially designed components therefor |
| 1B119 | Fluid energy mills usable for grinding or milling propellant or propellant constituents specified in 1C011.a, 1C011.b or 1C111, or on the U.S. Munitions List, and specially designed components therefor |
| 1B201 | Filament winding machines, other than those controlled by 1B001 or 1B101, in which the motions for positioning, wrapping, and winding fibers are coordinated and programmed in two or more axes, specially designed to fabricate composite structures or laminates from "fibrous or filamentary materials" and capable of winding cylindrical rotors of diameter between 75 mm and 400 mm and lengths of 600 mm or greater and coordinating and programming controls and precision mandrels therefor |
| 1B225 | Electrolytic cells for fluorine production with a production capacity greater than 250 g of fluorine per hour |
| 1B226 | Electromagnetic isotope separators, designed for or equipped with single or multiple ion sources capable of providing a total ion beam current of 50 mA or greater |
| 1B227 | Ammonia synthesis converters or ammonia synthesis units in which the synthesis gas (nitrogen and hydrogen) is withdrawn from an ammonia/hydrogen high-pressure exchange column and the synthesized ammonia is returned to that column |
| 1B228 | Hydrogen-cryogenic distillation columns |
| 1B229 | Water-hydrogen sulphide exchange tray columns constructed from fine carbon steel with a diameter of 1.8 m or greater, which can operate at a nominal pressure of 2 MPa or greater, and internal contactors therefor |
| 1B230 | Pumps capable of circulating solutions of concentrated or dilute potassium amide catalyst in liquid ammonia (KNH ₂ /NH ₃) |
| 1B231 | Tritium facilities, plant or equipment |
| 1B232 | Turboexpanders or turboexpander-compressor sets designed for operation at 35 K (-238 °C) or less and a throughput of hydrogen gas of 1000 kg/hr or greater |
| 1B233 | Lithium isotope separation facilities, plant and equipment |
| 1B999 | Specific processing equipment |
| 1C001 | Materials specially designed for use as absorbers of electromagnetic waves, or intrinsically conductive polymers |
| 1C002 | Metal alloys, metal alloy powder and alloyed materials |
| 1C003 | Magnetic metals, of all types and of whatever form, having any of the following (see List of Items Controlled) |
| 1C004 | Uranium titanium alloys or tungsten alloys with a "matrix" based on iron, nickel or copper, having all of the following (see List of Items Controlled) |
| 1C005 | "Superconductive" "composite" conductors in lengths exceeding 100 m or with a mass exceeding 100 g |
| 1C006 | Fluids and lubricating materials |
| 1C007 | Ceramic base materials, non-"composite" ceramic materials, ceramic—"matrix" "composite" materials and precursor materials |
| 1C008 | Non-fluorinated polymeric substances as follows (see List of Items Controlled) |
| 1C009 | Unprocessed fluorinated compounds as follows (see List of Items Controlled) |
| 1C010 | "Fibrous or filamentary materials" as follows (see List of Items Controlled). |
| 1C011 | Metals and compounds |
| 1C012 | Materials |
| 1C018 | Commercial charges and devices containing energetic materials on the Wassenaar Arrangement Munitions List and certain chemicals |
| 1C101 | Materials for Reduced Observables such as Radar Reflectivity, Ultraviolet/Infrared Signatures and Acoustic Signatures (i.e., Stealth Technology), Other than Those Controlled by 1C001, for applications usable in rockets, missiles, or unmanned aerial vehicles capable of achieving a "range" equal to or greater than 300km, and their subsystems |
| 1C102 | Resaturated pyrolyzed carbon-carbon materials designed for space launch vehicles specified in 9A004 or sounding rockets specified in 9A104. (These items are subject to the export licensing authority of the U.S. Department of State, Directorate of Defense Trade Controls. See 22 CFR part 121) |
| 1C107 | Graphite and ceramic materials, other than those controlled by 1C007 |
| 1C111 | Propellants and constituent chemicals for propellants, other than those specified in 1C011, as follows (see List of Items Controlled) |
| 1C116 | Maraging steels (iron alloys generally characterized by high nickel, very low carbon content and the use of substitutional elements or precipitates to produce strengthening and age-hardening of the alloy) having an ultimate tensile strength equal to or greater than 1.5 GPa, measured at 293 K (20 °C), in the form of sheet, plate or tubing with a wall or plate thickness equal to or less than 5 mm |

| ECCN | Description |
|-------|--|
| 1C117 | Tungsten, molybdenum and alloys of these metals in the form of uniform, spherical or atomized particles of 500 micrometer diameter or less with a purity of 97% or greater for fabrication of rocket motor components, i.e., heat shields, nozzle substrates, nozzle throats and thrust vector control surfaces |
| 1C118 | Titanium-stabilized duplex stainless steel (Ti-DSS), having all of the following characteristics (see List of Items Controlled) |
| 1C202 | Alloys, other than those controlled by 1C002.a.2.c or .d |
| 1C210 | "Fibrous or filamentary materials" or preprints, other than those controlled by 1C010.a, .b or .e |
| 1C216 | Maraging steel, other than that controlled by 1C116, "capable of" an ultimate tensile strength of 2,050 MPa or more, at 293 K (20 °C) |
| 1C225 | Boron and boron compounds, mixtures and loaded materials in which the boron-10 isotope is more than 20% by weight of the total boron content |
| 1C226 | Tungsten, tungsten carbide, and alloys containing more than 90% tungsten by weight, having a mass greater than 20 kg and in forms with a hollow cylindrical symmetry (including cylinder segments) with an inside diameter greater than 100 mm, but less than 300 mm, <i>except</i> manufactures specially designed for use as weights or gamma-ray collimators |
| 1C227 | Calcium (high purity) containing both less than 1,000 parts per million by weight of metallic impurities other than magnesium and less than 10 parts per million by weight of boron |
| 1C228 | Magnesium (high purity) containing both less than 200 parts per million by weight of metallic impurities other than calcium and less than 10 parts per million by weight of boron |
| 1C229 | Bismuth with a purity of 99.99% or greater by weight and containing less than 10 parts per million by weight of silver |
| 1C230 | Beryllium metal, alloys containing more than 50% of beryllium by weight, beryllium compounds, or manufactures thereof, and waste and scrap containing any of the foregoing |
| 1C231 | Hafnium metal, alloys and compounds of hafnium containing more than 60% hafnium by weight and manufactures thereof, and waste and scrap containing any of the foregoing |
| 1C232 | Helium-3, mixtures containing helium-3, and products or devices containing any of the foregoing, <i>except</i> a product or device containing less than 1 g of helium-3 |
| 1C233 | Lithium enriched in the 6 isotope (^6Li) to greater than 6.5 weight percent (7.5 atom percent), alloys, compounds, or mixtures containing lithium enriched in the 6 isotope, and products or devices containing any of the foregoing, <i>except</i> thermoluminescent dosimeters |
| 1C234 | Zirconium with a hafnium content of less than 1 part hafnium to 500 parts zirconium by weight, in the form of metal, alloys containing more than 50% zirconium by weight, compounds, or manufactures thereof, <i>except</i> zirconium in the form of foil having a thickness not exceeding 0.10 mm |
| 1C235 | Tritium, tritium compounds, mixtures containing tritium in which the ratio of tritium to hydrogen atoms exceeds 1 part in 1000, and products or devices containing any of the foregoing; <i>except</i> , a product or device containing not more than 1.48×10^3 GBq (40 Ci) of tritium |
| 1C236 | Alpha-emitting radionuclides having an alpha half-life of 10 days or greater, but less than 200 years, compounds or mixtures containing any of these radionuclides with a total alpha activity of 37 GBq/kg (1 Ci/kg) or greater, and products or devices containing any of the foregoing, <i>except</i> a product or device containing less than 3.7 GBq (10 millicuries) of alpha activity |
| 1C237 | Radium-226, radium-226 alloys, radium-226 compounds, mixtures containing radium-226, manufactures thereof, and products or devices containing any of the foregoing, <i>except</i> medical applicators, or products or devices containing not more than 0.37 GBq (10 millicuries) of radium-226 |
| 1C238 | Chlorine trifluoride (ClF_3) |
| 1C239 | High explosives, other than those controlled by the U.S. Munitions List, or substances or mixtures containing more than 2% thereof, with a crystal density greater than 1.8 gm per cm^3 and having a detonation velocity greater than 8,000 m/s. |
| 1C240 | Nickel powder or porous nickel metal, other than those controlled by 0C006 |
| 1C298 | Graphite with a boron content of less than 5 parts per million and a density greater than 1.5 grams per cubic centimeter that is intended for use other than in a nuclear reactor |
| 1C350 | Chemicals that may be used as precursors for toxic chemical agents |
| 1C351 | Human and zoonotic pathogens and "toxins" |
| 1C352 | Animal pathogens |
| 1C353 | Genetic elements and genetically-modified organisms |
| 1C354 | Plant pathogens |
| 1C355 | Chemical Weapons Convention (CWC) Schedule 2 and 3 chemicals and families of chemicals not controlled by ECCN 1C350 or by the Department of State under the ITAR |
| 1C360 | Select agents not controlled under ECCN 1C351, 1C352, or 1C354 |
| 1C395 | Mixtures and medical, analytical, diagnostic, and food testing kits not controlled by ECCN 1C350, as follows (see List of Items Controlled) |
| 1C980 | Inorganic chemicals listed in Supplement No. 1 to part 754 of the EAR that were produced or derived from the Naval Petroleum Reserves (NPR) or became available for export as a result of an exchange of any NPR produced or derived commodities |
| 1C981 | Crude petroleum including reconstituted crude petroleum, tar sands & crude shale oil listed in Supplement No. 1 to part 754 of the EAR |

| ECCN | Description |
|-------|---|
| 1C982 | Other petroleum products listed in Supplement No. 1 to part 754 of the EAR that were produced or derived from the Naval Petroleum Reserves (NPR) or became available for export as a result of an exchange of any NPR produced or derived commodities |
| 1C983 | Natural gas liquids and other natural gas derivatives listed in Supplement No. 1 to part 754 of the EAR that were produced or derived from the Naval Petroleum Reserves (NPR) or became available for export as a result of an exchange of any NPR produced or derived commodities |
| 1C984 | Manufactured gas and synthetic natural gas (except when commingled with natural gas and thus subject to export authorization from the Department of Energy) listed in Supplement No. 1 to part 754 of the EAR that were produced or derived from the Naval Petroleum Reserves (NPR) or became available for export as a result of an exchange of any NPR produced or derived commodities |
| 1C988 | Western red cedar (<i>thuja plicata</i>), logs and timber, and rough, dressed and worked lumber containing wane listed in Supplement No. 2 to part 754 of the EAR |
| 1C990 | Fibrous and filamentary materials, not controlled by 1C010 or 1C210, for use in "composite" structures and with a specific modulus of 3.18×10^6 m or greater and a specific tensile strength of 7.62×10^4 m or greater |
| 1C991 | Vaccines, immunotoxins, medical products, diagnostic and food testing kits |
| 1C992 | Commercial charges and devices containing energetic materials, n.e.s., and nitrogen trifluoride in a gaseous state |
| 1C995 | Mixtures not controlled by ECCN 1C350, ECCN 1C355 or ECCN 1C395 that contain chemicals controlled by ECCN 1C350 or ECCN 1C355 and medical, analytical, diagnostic, and food testing kits not controlled by ECCN 1C350 or ECCN 1C395 that contain chemicals controlled by ECCN 1C350.d, as follows (see List of Items Controlled) |
| 1C996 | Hydraulic fluids containing synthetic hydrocarbon oils, having all the following characteristics (see List of Items Controlled) |
| 1C997 | Ammonium nitrate, including fertilizers and fertilizer blends containing more than 15% by weight ammonium nitrate, except liquid fertilizers (containing any amount of ammonium nitrate) or dry fertilizers containing less than 15% by weight ammonium nitrate |
| 1C998 | Non-fluorinated polymeric substances, not controlled by 1C008, as follows (see List of Items Controlled) |
| 1C999 | Specific materials |
| 1D001 | "Software" specially designed or modified for the "development", "production" or "use" of equipment controlled by 1B001 to 1B003 |
| 1D002 | "Software" for the "development" of organic "matrix", metal "matrix" or carbon "matrix" laminates or "composites" |
| 1D003 | "Software" specially designed or modified to enable equipment to perform the functions of equipment controlled under 1A004.c or 1A004.d |
| 1D018 | "Software" specially designed or modified for the "development", "production", or "use" of items controlled by 1B018 |
| 1D101 | "Software" specially designed or modified for the "use" of commodities controlled by 1B101, 1B102, 1B115, 1B117, 1B118, or 1B119 |
| 1D103 | "Software" specially designed for reduced observables such as radar reflectivity, ultraviolet/infrared signatures and acoustic signatures, for applications usable in "missiles" or their subsystems |
| 1D201 | "Software" specially designed for the "use" of goods controlled by 1B201 |
| 1D390 | "Software" for process control that is specifically configured to control or initiate "production" of chemicals controlled by 1C350 |
| 1D993 | "Software" specially designed for the "development", "production", or "use" of equipment or materials controlled by 1C210.b or 1C990 |
| 1D999 | Specific software |
| 1E001 | "Technology" according to the General Technology Note for the "development" or "production" of items controlled by 1A001.b, 1A001.c, 1A002, 1A003, 1A004, 1A005, 1A006.b, 1A007, 1A008, 1A101, 1B (except 1B999), or 1C (except 1C355, 1C980 to 1C984, 1C988, 1C990, 1C991, 1C995 to 1C999) |
| 1E002 | Other "technology" as follows (see List of Items Controlled) |
| 1E101 | "Technology" according to the General Technology Note for the "development" or "production" of items controlled by 1A001.b, 1A001.c, 1A002, 1A003, 1A004, 1A005, 1A006, 1A007, 1A101, 1B (except 1B999), or 1C (except 1C355, 1C980 to 1C984, 1C988, 1C990, 1C991, 1C992, 1C995 to 1C999) |
| 1E102 | "Technology" according to the General Technology Note for the "development" of software controlled by 1D001, 1D101 or 1D103. |
| 1E103 | "Technical data" (including processing conditions) and procedures for the regulation of temperature, pressure or atmosphere in autoclaves or hydroclaves, when used for the "production" of "composites" or partially processed "composites", usable for equipment or materials specified in 1C007, 1C102, 1C107, 1C116, 1C117, 1C118, 9A110, and 9C110 |
| 1E104 | "Technology" for the "production" of pyrolytically derived materials formed on a mold, mandrel or other substrate from precursor gases which decompose in the 1,573 K (1,300°C) to 3,173 K (2,900°C) temperature range at pressures of 130 Pa (1 mm Hg) to 20 kPa (150 mm Hg), including "technology" for the composition of precursor gases, flow-rates and process control schedules and parameters |
| 1E201 | "Technology" according to the General Technology Note for the "use" of items controlled by 1A002, 1A007, 1A202, 1A225 to 1A227, 1B201, 1B225 to 1B232, 1B233.b, 1C002.b.3 and b.4, 1C010.a, 1C010.b, 1C010.e.1, 1C202, 1C210, 1C216, 1C225 to 1C240 or 1D201. |

| ECCN | Description |
|-------|--|
| 1E202 | “Technology” according to the General Technology Note for the “development” or “production” of goods controlled by 1A202 or 1A225 to 1A227 |
| 1E203 | “Technology” according to the General Technology Note for the “development” or “production” of “software” controlled by 1D201 |
| 1E350 | “Technology” according to the “General Technology Note” for facilities designed or intended to produce chemicals controlled by 1C350 |
| 1E351 | “Technology” according to the “General Technology Note” for the disposal of chemicals or microbiological materials controlled by 1C350, 1C351, 1C352, 1C353, 1C354, or 1C360 |
| 1E355 | “Technology” for the “production” of Chemical Weapons Convention (CWC) Schedule 2 and 3 chemicals |
| 1E994 | “Technology” for the “development”, “production”, or “use” of fibrous and filamentary materials controlled by 1C990. |
| 1E998 | “Technology” for the “development” or “production” of processing equipment controlled by 1B999, and materials controlled by 1C996, 1C997, 1C998, and 1C999 |

Category 2 - Materials Processing

| | |
|-------|---|
| 2A001 | Anti-friction bearings and bearing systems, as follows, (see List of Items Controlled) and components therefor |
| 2A101 | Radial ball bearings having all tolerances specified in accordance with ISO 492 Tolerance Class 2 (or ANSI/ABMA Std 20 Tolerance Class ABEC-9 or other national equivalents), or better and having all the following characteristics (see List of Items Controlled). |
| 2A225 | Crucibles made of materials resistant to liquid actinide metals |
| 2A226 | Valves 5 mm or greater in “nominal size”, with a bellows seal, wholly made of or lined with aluminum, aluminum alloy, nickel, or nickel alloy containing more than 60% nickel by weight |
| 2A290 | Generators and other equipment specially designed, prepared, or intended for use with nuclear plants |
| 2A291 | Equipment, except items controlled by 2A290, related to nuclear material handling and processing and to nuclear reactors |
| 2A292 | Piping, fittings and valves made of, or lined with, stainless steel, copper-nickel alloy or other alloy steel containing 10% or more nickel and/or chromium |
| 2A293 | Pumps designed to move molten metals by electromagnetic forces |
| 2A983 | Explosives or detonator detection equipment, both bulk and trace based, consisting of an automated device, or combination of devices for automated decision making to detect the presence of different types of explosives, explosive residue, or detonators; and parts and components, n.e.s. |
| 2A984 | Concealed object detection equipment operating in the frequency range from 30 GHz to 3000 GHz and having a spatial resolution of 0.5 milliradian up to and including 1 milliradian at a standoff distance of 100 meters; and parts and components, n.e.s. |
| 2A991 | Bearings and bearing systems not controlled by 2A001 |
| 2A994 | Portable electric generators and specially designed parts |
| 2A999 | Specific processing equipment |
| 2B001 | Machine tools and any combination thereof, for removing (or cutting) metals, ceramics or “composites”, which, according to the manufacturer's technical specifications, can be equipped with electronic devices for “numerical control”; and specially designed components as follows (see List of Items Controlled) |
| 2B002 | Numerically controlled optical finishing machine tools equipped for selective material removal to produce non-spherical optical surfaces having all of the following characteristics (See List of Items Controlled) |
| 2B003 | “Numerically controlled” or manual machine tools, and specially designed components, controls and accessories therefor, specially designed for the shaving, finishing, grinding or honing of hardened ($R_c = 40$ or more) spur, helical and double-helical gears with a pitch diameter exceeding 1,250 mm and a face width of 15% of pitch diameter or larger finished to a quality of AGMA 14 or better (equivalent to ISO 1328 class 3) |
| 2B004 | Hot “isostatic presses” having all of the characteristics described in the List of Items Controlled, and specially designed components and accessories therefor |
| 2B005 | Equipment specially designed for the deposition, processing and in-process control of inorganic overlays, coatings and surface modifications, as follows, for non-electronic substrates, by processes shown in the Table and associated Notes following 2E003.f, and specially designed automated handling, positioning, manipulation and control components therefor |
| 2B006 | Dimensional inspection or measuring systems and equipment |
| 2B007 | “Robots” having any of the following characteristics described in the List of Items Controlled and specially designed controllers and “end-effectors” therefor |
| 2B008 | Assemblies or units, specially designed for machine tools, or dimensional inspection or measuring systems and equipment, as follows (see List of Items Controlled) |
| 2B009 | Spin-forming machines and flow-forming machines, which, according to the manufacturer's technical specifications, can be equipped with “numerical control” units or a computer control |
| 2B018 | Equipment on the Wassenaar Arrangement Munitions List |
| 2B104 | “Isostatic presses” other than those controlled by 2B004 |

| ECCN | Description |
|-------|---|
| 2B105 | Chemical vapor deposition (CVD) furnaces, other than those controlled by 2B005.a, designed or modified for the densification of carbon-carbon composites |
| 2B109 | Flow-forming machines, other than those controlled by 2B009, and specially designed components therefor |
| 2B116 | Vibration test systems, equipment and components therefor |
| 2B117 | Equipment and process controls, other than those controlled by 2B004, 2B005.a, 2B104 or 2B105, designed or modified for the densification and pyrolysis of structural composite rocket nozzles and reentry vehicle nose tips |
| 2B119 | Balancing machines and related equipment, as follows (see List of Items Controlled) |
| 2B120 | Motion simulators or rate tables (equipment capable of simulating motion), having all of the following characteristics (see List of Items Controlled) |
| 2B121 | Positioning tables (equipment capable of precise rotary position in any axis), other than those controlled in 2B120, having all the following characteristics (See List of Items Controlled) |
| 2B122 | Centrifuges capable of imparting accelerations above 100 g and having slip rings capable of transmitting electrical power and signal information |
| 2B201 | Machine tools, other than those controlled by 2B001 for removing or cutting metals, ceramics or "composites", which, according to manufacturer's technical specification, can be equipped with electronic devices for simultaneous "contouring control" in two or more axes |
| 2B204 | "Isostatic presses," not controlled by 2B004 or 2B104, capable of achieving a maximum working pressure of 69 Mpa (10,000 psi) or greater and having a chamber cavity with an inside diameter in excess of 152 mm (6 inches) and specially designed dies, molds, and controls therefor |
| 2B206 | Dimensional inspection machines, devices or systems, other than those controlled by 2B006 |
| 2B207 | "Robots" or "end-effectors", other than those controlled by 2B007, specially designed to comply with national safety standards applicable to handling high explosives (for example, meeting electrical code ratings for high explosives) and specially designed controllers therefor |
| 2B209 | Flow forming machines, or spin forming machines capable of flow forming functions, other than those controlled by 2B009 or 2B109, and mandrels |
| 2B225 | Remote manipulators that can be used to provide remote actions in radiochemical separation operations or hot cells |
| 2B226 | Controlled atmosphere (vacuum or inert gas) induction furnaces capable of operation above 1,123 K (850 °C) and having induction coils 600 mm or less in diameter, and designed for power inputs of 5 kW or more, and power supplies specially designed therefor with a specified power output of 5 kW or more |
| 2B227 | Vacuum or other controlled atmosphere metallurgical melting and casting furnaces and specially configured computer control and monitoring systems therefor |
| 2B228 | Rotor fabrication and assembly equipment, rotor straightening equipment, and bellows-forming mandrels and dies |
| 2B229 | Centrifugal multiplane balancing machines, fixed or portable, horizontal or vertical |
| 2B230 | "Pressure transducers" capable of measuring absolute pressure at any point in the range 0 to 13 kPa, with pressure sensing elements made of or protected by nickel, nickel alloy with more than 60% nickel by weight, aluminum or aluminum alloy |
| 2B231 | Vacuum pumps with an input throat size of 380 mm or greater with a pumping speed of 15 m³/s or greater and capable of producing an ultimate vacuum better than 13.3 mPa |
| 2B232 | Multistage light gas guns or other high-velocity gun systems (coil, electromagnetic, electrothermal, and other advanced systems) capable of accelerating projectiles to 2 km/s or greater |
| 2B290 | "Numerically controlled" machine tools not controlled by 2B001 or 2B201 |
| 2B350 | Chemical manufacturing facilities and equipment, except valves controlled by 2A226 or 2A292 |
| 2B351 | Toxic gas monitoring systems and their dedicated detecting components (i.e., detectors, sensor devices, and replaceable sensor cartridges), as follows, except those systems and detectors controlled by ECCN 1A004.c (see List of Items Controlled) |
| 2B352 | Equipment capable of use in handling biological materials |
| 2B991 | Numerical control units for machine tools and numerically controlled machine tools, n.e.s. |
| 2B992 | Non-"numerically controlled" machine tools for generating optical quality surfaces, and specially designed components therefor |
| 2B993 | Gearmaking and/or finishing machinery not controlled by 2B003 capable of producing gears to a quality level of better than AGMA 11 |
| 2B996 | Dimensional inspection or measuring systems or equipment not controlled by 2B006 |
| 2B997 | "Robots" not controlled by 2B007 or 2B207 that are capable of employing feedback information in real-time processing from one or more sensors to generate or modify "programs" or to generate or modify numerical program data |
| 2B998 | Assemblies, units or inserts specially designed for machine tools controlled by 2B991, or for equipment controlled by 2B993, 2B996 or 2B997 |
| 2B999 | Specific processing equipment |
| 2D001 | "Software", other than that controlled by 2D002, specially designed or modified for the "development", "production" or "use" of equipment controlled by 2A001 or 2B001 to 2B009 |

| ECCN | Description |
|-------|---|
| 2D002 | “Software” for electronic devices, even when residing in an electronic device or system, enabling such devices or systems to function as a “numerical control” unit, capable of coordinating simultaneously more than 4 axes for “contouring control” |
| 2D018 | “Software” for the “development”, “production” or “use” of equipment controlled by 2B018 |
| 2D101 | “Software” specially designed or modified for the “use” of equipment controlled by 2B104, 2B105, 2B109, 2B116, 2B117, or 2B119 to 2B122 |
| 2D201 | “Software” specially designed for the “use” of equipment controlled by 2B204, 2B206, 2B207, 2B209, 2B227 or 2B229 |
| 2D202 | “Software” specially designed or modified for the “development”, “production” or “use” of equipment controlled by 2B201 |
| 2D290 | “Software” specially designed or modified for the “development”, “production” or “use” of items controlled by 2A290, 2A291, 2A292, 2A293, or 2B290 |
| 2D351 | Dedicated “software” for toxic gas monitoring systems and their dedicated detecting components controlled by ECCN 2B351 |
| 2D983 | “Software” specially designed or modified for the “development”, “production” or “use” of equipment controlled by 2A983 |
| 2D984 | “Software” “required” for the “development”, “production” or “use” of concealed object detection equipment controlled by 2A984 |
| 2D991 | “Software” specially designed for the “development”, “production”, or “use” of equipment controlled by 2B991, 2B993, or 2B996, 2B997, and 2B998 |
| 2D992 | Adaptive control software |
| 2D994 | “Software” specially designed for the “development” or “production” of portable electric generators controlled by 2A994 |
| 2E001 | “Technology” according to the General Technology Note for the “development” of equipment or “software” controlled by 2A (except 2A983, 2A991, or 2A994), 2B (except 2B991, 2B993, 2B996, 2B997, or 2B998), or 2D (except 2D983, 2D991, 2D992, or 2D994) |
| 2E002 | “Technology” according to the General Technology Note for the “production” of equipment controlled by 2A (except 2A983, 2A991, or 2A994), or 2B (except 2B991, 2B993, 2B996, 2B997, or 2B998) |
| 2E003 | Other “technology” |
| 2E018 | “Technology” for the “use” of equipment controlled by 2B018 |
| 2E101 | “Technology” according to the General Technology Note for the “use” of equipment or “software” controlled by 2B004, 2B009, 2B104, 2B105, 2B109, 2B116, 2B117, 2B119 to 2B122, 2D001, 2D002 or 2D101 |
| 2E201 | “Technology” according to the General Technology Note for the “use” of equipment or “software” controlled by 2A225, 2A226, 2B001, 2B006, 2B007.b, 2B007.c, 2B201, 2B204, 2B206, 2B207, 2B209, 2B225 to 2B232, 2D002, 2D201 or 2D202 for NP reasons |
| 2E290 | “Technology” according to the General Technology Note for the “use” of equipment controlled by 2A290, 2A291, 2A292, 2A293, and 2B290 |
| 2E301 | “Technology” according to the “General Technology Note” for “use” of items controlled by 2B350, 2B351 and 2B352 |
| 2E983 | “Technology” specially designed or modified for the “development”, “production” or “use” of equipment controlled by 2A983, or the “development” of software controlled by 2D983 |
| 2E984 | “Technology” “required” for the “development”, “production” or “use” of equipment controlled by 2A984 or “required” for the “development” of “software” controlled by 2D984 |
| 2E991 | “Technology” for the “use” of equipment controlled by 2B991, 2B993, 2B996, or 2B997 |
| 2E994 | “Technology” for the “use” of portable electric generators controlled by 2A994 |

Category 3 - Electronics

| | |
|-------|---|
| 3A001 | Electronic components and specially designed components therefor, as follows |
| 3A002 | General purpose electronic equipment and accessories therefor, as follows |
| 3A003 | Spray cooling thermal management systems employing closed loop fluid handling and reconditioning equipment in a sealed enclosure where a dielectric fluid is sprayed onto electronic components using specially designed spray nozzles that are designed to maintain electronic components within their operating temperature range, and specially designed components therefor |
| 3A101 | Electronic equipment, devices and components, other than those controlled by 3A001 |
| 3A201 | Electronic components, other than those controlled by 3A001 |
| 3A225 | Frequency changers (also known as converters or inverters) or generators, other than those controlled by 0B001.c.11 |
| 3A226 | High-Power direct current power supplies, other than those controlled by 0B001.j.6, capable of continuously producing, over a time period of 8 hours, 100 V or greater with current output of 500 A or greater and with current or voltage regulation better than 0.1% |
| 3A227 | High-voltage direct current power supplies, other than those controlled by 0B001.j.5, capable of continuously producing, over a time period of 8 hours, 20,000 V or greater with current output of 1 A or greater and with current or voltage regulation better than 0.1% over a time period of 8 hours |
| 3A228 | Switching devices |

| ECCN | Description |
|-------|---|
| 3A229 | Firing sets and equivalent high-current pulse generators (for detonators controlled by 3A232) |
| 3A230 | High-speed pulse generators with output voltages greater than 6 volts into a resistive load of less than 55 ohms, and with pulse transition times less than 500 picoseconds |
| 3A231 | Neutron generator systems, including tubes, designed for operation without an external vacuum system and utilizing electrostatic acceleration to induce a tritium-deuterium nuclear reaction |
| 3A232 | Detonators and multipoint initiation systems |
| 3A233 | Mass spectrometers, other than those controlled by 0B002.g, capable of measuring ions of 230 atomic mass units or greater and having a resolution of better than 2 parts in 230, and ion sources therefor |
| 3A292 | Oscilloscopes and transient recorders other than those controlled by 3A002.a.5, and specially designed components therefor |
| 3A980 | Voice print identification and analysis equipment and parts, n.e.s. |
| 3A981 | Polygraphs (except biomedical recorders designed for use in medical facilities for monitoring biological and neurophysical responses); fingerprint analyzers, cameras and equipment, n.e.s.; automated fingerprint and identification retrieval systems, n.e.s.; psychological stress analysis equipment; electronic monitoring restraint devices; and specially designed parts and accessories, n.e.s. |
| 3A991 | Electronic devices and components not controlled by 3A001 |
| 3A992 | General purpose electronic equipment not controlled by 3A002 |
| 3A999 | Specific processing equipment |
| 3B001 | Equipment for the manufacturing of semiconductor devices or materials, as follows (see List of Items Controlled) and specially designed components and accessories therefor |
| 3B002 | Test equipment specially designed for testing finished or unfinished semiconductor devices as follows (see List of Items Controlled) and specially designed components and accessories therefor |
| 3B991 | Equipment not controlled by 3B001 for the manufacture of electronic components and materials, and specially designed components and accessories therefor |
| 3B992 | Equipment not controlled by 3B002 for the inspection or testing of electronic components and materials, and specially designed components and accessories therefor |
| 3C001 | Hetero-epitaxial materials consisting of a "substrate" having stacked epitaxially grown multiple layers |
| 3C002 | Resist materials as follows (see List of Items Controlled) and "substrates" coated with the following resists. |
| 3C003 | Organic-inorganic compounds as follows (see List of Items Controlled) |
| 3C004 | Hydrides of phosphorus, arsenic or antimony, having a purity better than 99.999%, even diluted in inert gases or hydrogen |
| 3C005 | Silicon carbide (SiC), gallium nitride (GaN), aluminum nitride (AlN) or aluminum gallium nitride (AlGaN) "substrates", or ingots, boules, or other preforms of those materials, having resistivities greater than 10,000 ohm-cm at 20°C |
| 3C006 | "Substrates" specified in 3C005 with at least one epitaxial layer of silicon carbide, gallium nitride, aluminum nitride or aluminum gallium nitride |
| 3C992 | Positive resists designed for semiconductor lithography specially adjusted (optimized) for use at wavelengths between 370 and 245 nm. |
| 3D001 | "Software" specially designed for the "development" or "production" of equipment controlled by 3A001.b to 3A002.g or 3B (except 3B991 and 3B992) |
| 3D002 | "Software" specially designed for the "use" of equipment controlled by 3B001.a to .f, or 3B002 |
| 3D003 | 'Physics-based' simulation "software" specially designed for the "development" of lithographic, etching or deposition processes for translating masking patterns into specific topographical patterns in conductors, dielectrics or semiconductor materials |
| 3D004 | "Software" specially designed for the "development" of equipment controlled by 3A003 |
| 3D101 | "Software" specially designed or modified for the "use" of equipment controlled by 3A101.b |
| 3D980 | "Software" specially designed for the "development", "production", or "use" of items controlled by 3A980 and 3A981 |
| 3D991 | "Software" specially designed for the "development", "production", or "use" of electronic devices or components controlled by 3A991, general purpose electronic equipment controlled by 3A992, or manufacturing and test equipment controlled by 3B991 and 3B992; or "software" specially designed for the "use" of equipment controlled by 3B001.g and .h |
| 3E001 | "Technology" according to the General Technology Note for the "development" or "production" of equipment or materials controlled by 3A (except 3A292, 3A980, 3A981, 3A991 3A992, or 3A999), 3B (except 3B991 or 3B992) or 3C (except 3C992) |
| 3E002 | "Technology" according to the General Technology Note other than that controlled in 3E001 for the "development" or "production" of a "microprocessor microcircuit", "micro-computer microcircuit" and microcontroller microcircuit core, having an arithmetic logic unit with an access width of 32 bits or more and any of the following features or characteristics (see List of Items Controlled) |
| 3E003 | Other "technology" for the "development" or "production" of the following (see List of Items Controlled) |
| 3E101 | "Technology" according to the General Technology Note for the "use" of equipment or "software" controlled by 3A001.a.1 or .2, 3A101, or 3D101 |
| 3E102 | "Technology" according to the General Technology Note for the "development" of "software" controlled by 3D101 |

| ECCN | Description |
|-------|--|
| 3E201 | Technology" according to the General Technology Note for the "use" of equipment controlled by 3A001.e.2 or .e.3, 3A201, or 3A225 to 3A233 |
| 3E292 | "Technology" according to the General Technology Note for the "development", "production", or "use" of equipment controlled by 3A292 |
| 3E980 | "Technology" specially designed for "development", "production", or "use" of items controlled by 3A980 and 3A981 |
| 3E991 | "Technology" for the "development", "production", or "use" of electronic devices or components controlled by 3A991, general purpose electronic equipment controlled by 3A992, or manufacturing and test equipment controlled by 3B991 or 3B992, or materials controlled by 3C992 |

Category 4 - Computers

| | |
|-------|--|
| 4A001 | Electronic computers and related equipment, having any of the following (see List of Items Controlled), and "electronic assemblies" and specially designed components therefor |
| 4A003 | "Digital computers", "electronic assemblies", and related equipment therefor, as follows and specially designed components therefor |
| 4A004 | Computers as follows (see List of Items Controlled) and specially designed related equipment, "electronic assemblies" and components therefor |
| 4A101 | Analog computers, "digital computers" or digital differential analyzers, other than those controlled by 4A001 designed or modified for use in "missiles" |
| 4A102 | "Hybrid computers" specially designed for modelling, simulation or design integration of "missiles". (These items are subject to the export licensing authority of the U.S. Department of State, Directorate of Defense Trade Controls. See 22 CFR part 121) |
| 4A980 | Computers for fingerprint equipment, n.e.s. |
| 4A994 | Computers, "electronic assemblies", and related equipment not controlled by 4A001 or 4A003, and specially designed components therefor |
| 4D001 | "Software" as follows (see List of Items Controlled) |
| 4D002 | "Software" specially designed or modified to support "technology" controlled by 4E (except 4E980, 4E992, and 4E993) |
| 4D980 | "Software" specially designed for the "development", "production", or "use" of items controlled by 4A980 |
| 4D993 | "Program" proof and validation "software", "software" allowing the automatic generation of "source codes", and operating system "software" that are specially designed for real time processing equipment (see List of Items Controlled). |
| 4D994 | "Software" other than that controlled in 4D001 specially designed or modified for the "development", "production", or "use" of equipment controlled by 4A101, 4A994, 4B994, and materials controlled by 4C994 |
| 4E001 | "Technology" as follows (see List of Items Controlled) |
| 4E980 | "Technology" for the "development", "production", or "use" of items controlled by 4A980 |
| 4E992 | "Technology" other than that controlled in 4E001 for the "development," "production," or "use" of equipment controlled by 4A994, or "software" controlled by 4D993 or 4D994 |
| 4E993 | "Technology" for the "development" or "production" of equipment designed for "multi-data-stream processing" |

Category 5 - Part I: Telecommunications

| | |
|-------|--|
| 5A001 | Telecommunications systems, equipment, components and accessories, as follows |
| 5A101 | Telemetry and telecontrol equipment, including ground equipment, designed or modified for unmanned aerial vehicles or rocket systems (including ballistic missile systems, space launch vehicles, sounding rockets, cruise missile systems, target drones, and reconnaissance drones) capable of a maximum "range" equal to or greater than 300 km |
| 5A980 | Devices primarily useful for the surreptitious interception of wire, oral, or electronic communications; and parts and accessories therefor |
| 5A991 | Telecommunication equipment, not controlled by 5A001 |
| 5B001 | Telecommunication test, inspection and production equipment, components and accessories, as follows (See List of Items Controlled) |
| 5B991 | Telecommunications test equipment |
| 5C991 | Preforms of glass or of any other material optimized for the manufacture of optical fibers controlled by 5A991 |
| 5D001 | "Software" as follows (see List of Items Controlled) |
| 5D101 | "Software" specially designed or modified for the "use" of items controlled by 5A101 |
| 5D980 | Other "software", as follows (see List of Items Controlled) |
| 5D991 | "Software" specially designed or modified for the "development", "production", or "use" of equipment controlled by 5A991 and 5B991, and dynamic adaptive routing software as described in the List of Items Controlled |
| 5E001 | "Technology" as follows (see List of Items Controlled) |
| 5E101 | "Technology" according to the General Technology Note for the "development", "production" or "use" of equipment or software controlled by 5A101 or 5D101 |
| 5E980 | "Technology" primarily useful for the "development", "production", or "use" of equipment controlled by 5A980 |

| ECCN | Description |
|-------|--|
| 5E991 | "Technology" for the "development", "production" or "use" of equipment controlled by 5A991 or 5B991, or "software" controlled by 5D991 |

Category 5 - Part II: Information Security

| | |
|-------|---|
| 5A002 | "Information security" systems, equipment and components therefor, as follows |
| 5A992 | Equipment not controlled by 5A002 |
| 5B002 | "Information Security" test, inspection and "production" equipment, as follows (see List of Items Controlled) |
| 5D002 | "Software" as follows (see List of Items Controlled) |
| 5D992 | "Information Security" "software" not controlled by 5D002 |
| 5E002 | "Technology" as follows (see List of Items Controlled). |
| 5E992 | "Information Security" "technology", not controlled by 5E002 |

Category 6 - Sensors and Lasers

| | |
|-------|--|
| 6A001 | Acoustic systems, equipment and components, as follows |
| 6A002 | Optical sensors |
| 6A003 | Cameras |
| 6A004 | Optical equipment and components, as follows (see List of Items Controlled) |
| 6A005 | "Lasers" (other than those described in 0B001.g.5 or .h.6), components and optical equipment |
| 6A006 | "Magnetometers", "magnetic gradiometers", "intrinsic magnetic gradiometers", underwater electric field sensors, "compensation systems", and specially designed components therefor, as follows (see List of Items Controlled) |
| 6A007 | Gravity meters (gravimeters) and gravity gradiometers |
| 6A008 | Radar systems, equipment and assemblies, having any of the following (see List of Items Controlled), and specially designed components therefor |
| 6A102 | Radiation hardened detectors, other than those controlled by 6A002, specially designed or modified for protecting against nuclear effects (e.g., Electromagnetic Pulse (EMP), X-rays, combined blast and thermal effects) and usable for "missiles", designed or rated to withstand radiation levels which meet or exceed a total irradiation dose of 5×10^5 rads (silicon) |
| 6A103 | Radomes designed to withstand a combined thermal shock greater than 100 cal/sq cm accompanied by a peak over pressure of greater than 50 kPa, usable in protecting "missiles" against nuclear effects (e.g. Electromagnetic Pulse (EMP), X-rays, combined blast and thermal effects), and usable for "missiles". (These items are subject to the export licensing authority of the U.S. Department of State, Directorate of Defense Trade Controls. See 22 CFR part 121) |
| 6A107 | Gravity meters (gravimeters) and specially designed components for gravity meters and gravity gradiometers, as follows (see List of Items Controlled) |
| 6A108 | Radar systems and tracking systems, other than those controlled by 6A008 |
| 6A202 | Photomultiplier tubes with a photocathode area of greater than 20 cm ² having an anode pulse rise time of less than 1 ns |
| 6A203 | Cameras and components, other than those controlled by 6A003 |
| 6A205 | "Lasers", "laser" amplifiers and oscillators, other than those controlled by 0B001.g.5, 0B001.h.6, or 6A005, as follows (see List of Items Controlled) |
| 6A225 | Velocity interferometers for measuring velocities in excess of 1 km/s during time intervals of less than 10 microseconds |
| 6A226 | Pressure sensors |
| 6A991 | Marine or terrestrial acoustic equipment, n.e.s., capable of detecting or locating underwater objects or features or positioning surface vessels or underwater vehicles; and specially designed components, n.e.s. |
| 6A992 | Optical Sensors, not controlled by 6A002 |
| 6A993 | Cameras not controlled by 6A003 or 6A203, as follows (see List of Items Controlled) |
| 6A994 | Optics, not controlled by 6A004 |
| 6A995 | "Lasers" (see List of Items Controlled) |
| 6A996 | "Magnetometers" not controlled by 6A006, "Superconductive" electromagnetic sensors, and specially designed components therefor, as follows (see List of Items Controlled) |
| 6A997 | Gravity meters (gravimeters) for ground use, n.e.s. |
| 6A998 | Radar systems, equipment and assemblies, n.e.s., (see List of Items Controlled), and specially designed components therefor. |
| 6A999 | Specific processing equipment |
| 6B004 | Optical equipment as follows (see List of Items Controlled) |
| 6B007 | Equipment to produce, align and calibrate land-based gravity meters with a static accuracy of better than 0.1 mgal |
| 6B008 | Pulse radar cross-section measurement systems having transmit pulse widths of 100 ns or less, and specially designed components therefor |
| 6B108 | Systems, other than those controlled by 6B008, specially designed for radar cross section measurement usable for rockets, missiles, or unmanned aerial vehicles capable of achieving a "range" equal to or greater than 300 km and their subsystems |

| ECCN | Description |
|-------|---|
| 6B995 | Specially designed or modified equipment, including tools, dies, fixtures or gauges, and other specially designed components and accessories therefor |
| 6C002 | Optical sensor materials as follows (see List of Items Controlled) |
| 6C004 | Optical materials as follows (see List of Items Controlled) |
| 6C005 | Synthetic crystalline "laser" host material in unfinished form as follows (see List of Items Controlled) |
| 6C992 | Optical sensing fibers not controlled by 6A002.d.3 which are modified structurally to have a 'beat length' of less than 500 mm (high birefringence) or optical sensor materials not described in 6C002.b and having a zinc content of equal to or more than 6% by 'mole fraction.' |
| 6C994 | Optical materials |
| 6D001 | "Software" specially designed for the "development" or "production" of equipment controlled by 6A004, 6A005, 6A008 or 6B008 |
| 6D002 | "Software" specially designed for the "use" of equipment controlled by 6A002.b, 6A008 or 6B008 |
| 6D003 | Other "software" as follows (see List of Items Controlled) |
| 6D102 | "Software" specially designed or modified for the "use" of goods controlled by 6A108 |
| 6D103 | "Software" that processes post-flight, recorded data, enabling determination of vehicle position throughout its flight path, specially designed or modified for "missiles" |
| 6D991 | "Software" specially designed for the "development", "production", or "use" of equipment controlled by 6A002.e, 6A991, 6A996, 6A997, or 6A998 |
| 6D992 | "Software" specially designed for the "development" or "production" of equipment controlled by 6A992, 6A994, or 6A995 |
| 6D993 | Other "software" not controlled by 6D003 |
| 6D994 | "Software" designed or modified for cameras incorporating "focal plane arrays" specified by 6A002.a.3.f and designed or modified to remove a frame rate restriction and allow the camera to exceed the frame rate specified in 6A003.b.4. Note 3.a. |
| 6E001 | "Technology" according to the General Technology Note for the "development" of equipment, materials or "software" controlled by 6A (except 6A991, 6A992, 6A994, 6A995, 6A996, 6A997, or 6A998), 6B (except 6B995), 6C (except 6C992 or 6C994), or 6D (except 6D991, 6D992, or 6D993). |
| 6E002 | "Technology" according to the General Technology Note for the "production" of equipment or materials controlled by 6A (except 6A991, 6A992, 6A994, 6A995, 6A996, 6A997 or 6A998), 6B (except 6B995) or 6C (except 6C992 or 6C994). |
| 6E003 | Other "technology" as follows (see List of Items Controlled) |
| 6E101 | "Technology" according to the General Technology Note for the "use" of equipment or "software" controlled by 6A002, 6A007.b and .c, 6A008, 6A102, 6A107, 6A108, 6B108, 6D102 or 6D103 |
| 6E201 | "Technology", not controlled by 6E001 or 6E002, according to the General Technology Note for the "use" of equipment controlled by 6A003.a.2. 6A003.a.3, 6A003.a.4; 6A005.a.2, 6A005.a.4, 6A005.b.2.b, 6A005.b.3.a, 6A005.b.4.b, 6A005.b.6.b, 6A005.c.1.b, 6A005.c.2.b, 6A005.d.3.c, or 6A005.d.4.c (as described in the license requirement note to 6A005); 6A202, 6A203, 6A205, 6A225 or 6A226 |
| 6E991 | "Technology" for the "development", "production" or "use" equipment controlled by 6A991, 6A996, 6A997, or 6A998 |
| 6E992 | "Technology" for the "development" or "production" of equipment, materials or "software" controlled by 6A992, 6A994, or 6A995, 6B995, 6C992, 6C994, or 6D993 |
| 6E993 | Other "technology", not controlled by 6E003 |

Category 7 - Navigation and Avionics

| | |
|-------|---|
| 7A001 | Accelerometers as follows (see List of Items Controlled) and specially designed components therefor |
| 7A002 | Gyros or angular rate sensors, having any of the following (see List of Items Controlled) and specially designed components therefor |
| 7A003 | Inertial systems and specially designed components, as follows |
| 7A004 | Gyro-astro compasses and other devices which derive position or orientation by means of automatically tracking celestial bodies or satellites, with an azimuth accuracy of equal to or less (better) than 5 seconds of arc |
| 7A005 | Global Navigation Satellite Systems (GNSS) receiving equipment having any of the following and specially designed components therefor. |
| 7A006 | Airborne altimeters operating at frequencies other than 4.2 to 4.4 GHz inclusive and having any of the following (see List of Items Controlled) |
| 7A008 | Underwater sonar navigation systems using Doppler velocity or correlation velocity logs integrated with a heading source and having a positioning accuracy of equal to or less (better) than 3% of distance traveled "Circular Error Probable" ("CEP") and specially designed components therefor |
| 7A101 | Accelerometers, other than those controlled by 7A001 (see List of Items Controlled), and specially designed components therefor |
| 7A102 | All types of gyros, other than those controlled by 7A002, usable in rockets, missiles, or unmanned aerial vehicles capable of achieving a "range" equal to or greater than 300 km, with a rated "drift rate" 'stability' of less than 0.5 degrees (1 sigma or rms) per hour in a 1 g environment and specially designed components therefor |

| ECCN | Description |
|-------|---|
| 7A103 | Instrumentation, navigation equipment and systems, other than those controlled by 7A003, and specially designed components therefor |
| 7A104 | Gyro-astro compasses and other devices, other than those controlled by 7A004, which derive position or orientation by means of automatically tracking celestial bodies or satellites and specially designed components therefor |
| 7A105 | Receiving equipment for Global Navigation Satellite Systems (GNSS) (e.g. GPS, GLONASS, or Galileo) having any of the following characteristics, and specially designed components therefor. (These items are subject to the export licensing authority of the U.S. Department of State, Directorate of Defense Trade Controls See 22 CFR part 121) |
| 7A106 | Altimeters, other than those controlled by 7A006, of radar or laser radar type, designed or modified for use in "missiles". (These items are subject to the export licensing authority of the U.S. Department of State, Directorate of Defense Trade Controls. See 22 CFR part 121) |
| 7A107 | Three axis magnetic heading sensors having <i>all</i> of the following characteristics, and specially designed components therefor. |
| 7A115 | Passive sensors for determining bearing to specific electromagnetic source (direction finding equipment) or terrain characteristics, designed or modified for use in "missiles". (These items are subject to the export licensing authority of the U.S. Department of State, Directorate of Defense Trade Controls. See 22 CFR part 121) |
| 7A116 | Flight control systems (hydraulic, mechanical, electro-optical, or electro-mechanical flight control systems (including fly-by-wire systems) and attitude control equipment) designed or modified for "missiles". (These items are subject to the export licensing authority of the U.S. Department of State, Directorate of Defense Trade Controls. See 22 CFR part 121) |
| 7A117 | "Guidance sets" capable of achieving system accuracy of 3.33% or less of the range (e.g., a "CEP" of 10 km or less at a range of 300 km). (These items are subject to the export licensing authority of the U.S. Department of State, Directorate of Defense Trade Controls. See 22 CFR part 121) |
| 7A994 | Other navigation direction finding equipment, airborne communication equipment, all aircraft inertial navigation systems not controlled under 7A003 or 7A103, and other avionic equipment, including parts and components, n.e.s. |
| 7B001 | Test, calibration or alignment equipment, specially designed for equipment controlled by 7A (except 7A994) |
| 7B002 | Equipment specially designed to characterize mirrors for ring "laser" gyros, as follows (see List of Items Controlled) |
| 7B003 | Equipment specially designed for the "production" of equipment controlled by 7A (except 7A994) |
| 7B101 | "Production equipment", and other test, calibration, and alignment equipment, other than that described in 2B119 to 2B122, 7B003, and 7B102, designed or modified to be used with equipment controlled by 7A001 to 7A004 or 7A101 to 7A104 |
| 7B102 | Equipment, other than those controlled by 7B002, designed or modified to characterize mirrors, for laser gyro equipment, as follows (see List of Items Controlled) |
| 7B103 | Specially designed "production facilities" for equipment controlled by 7A117 (These items are subject to the export licensing authority of the U.S. Department of State, Directorate of Defense Trade Controls. See 22 CFR part 121.) |
| 7B994 | Other equipment for the test, inspection, or "production" of navigation and avionics equipment |
| 7D001 | "Software" specially designed or modified for the "development" or "production" of equipment controlled by 7A (except 7A994) or 7B (except 7B994) |
| 7D002 | "Source code" for the "use" of any inertial navigation equipment, including inertial equipment not controlled by 7A003 or 7A004, or Attitude and Heading Reference Systems ('AHRS') |
| 7D003 | Other "software" as follows (see List of Items Controlled) |
| 7D101 | "Software" specially designed or modified for the "use" of equipment controlled by 7A001 to 7A006, 7A101 to 7A107, 7A115, 7A116, 7B001, 7B002, 7B003, 7B101, 7B102, or 7B103 |
| 7D102 | Integration "software", as follows (See List of Items Controlled) |
| 7D103 | "Software" specially designed for modelling or simulation of the "guidance sets" controlled by 7A117 or for their design integration with "missiles". (This entry is subject to the export licensing authority of the U.S. Department of State, Directorate of Defense Trade Controls. See 22 CFR part 121.) |
| 7D994 | "Software", n.e.s., for the "development", "production", or "use" of navigation, airborne communication and other avionics |
| 7E001 | "Technology" according to the General Technology Note for the "development" of equipment or "software", controlled by 7A (except 7A994), 7B (except 7B994) or 7D (except 7D994) |
| 7E002 | "Technology" according to the General Technology Note for the "production" of equipment controlled by 7A (except 7A994) or 7B (except 7B994) |
| 7E003 | "Technology" according to the General Technology Note for the repair, refurbishing or overhaul of equipment controlled by 7A001 to 7A004 |
| 7E004 | Other "technology" as follows (see List of Items Controlled) |
| 7E101 | "Technology", according to the General Technology Note for the "use" of equipment controlled by 7A001 to 7A006, 7A101 to 7A107, 7A115 to 7A117, 7B001, 7B002, 7B003, 7B101, 7B102, 7B103, or 7D101 to 7D103 |
| 7E102 | "Technology" for protection of avionics and electrical subsystems against electromagnetic pulse (EMP) and electromagnetic interference (EMI) hazards, from external sources |
| 7E104 | Design "Technology" for the integration of the flight control, guidance, and propulsion data into a flight management system, designed or modified for "missiles", for optimization of rocket system trajectory. (This entry is subject to the |

| ECCN | Description |
|-------|---|
| | export licensing authority of the U.S. Department of State, Directorate of Defense Trade Controls. See 22 CFR part 121.) |
| 7E994 | “Technology”, n.e.s., for the “development”, “production”, or “use” of navigation, airborne communication, and other avionics equipment |

Category 8 - Marine

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| 8A001 | Submersible vehicles and surface vessels |
| 8A002 | Marine systems, equipment and components, as follows (see List of Items Controlled) |
| 8A018 | Items on the Wassenaar Arrangement Munitions List |
| 8A918 | Marine boilers |
| 8A992 | Vessels, marine systems or equipment, not controlled by 8A001, 8A002 or 8A018, and specially designed parts therefor |
| 8B001 | Water tunnels having a background noise of less than 100 dB (reference 1 µPa, 1 Hz) in the frequency range from 0 to 500 Hz and designed for measuring acoustic fields generated by a hydro-flow around propulsion system models |
| 8C001 | ‘Syntactic foam’ designed for underwater use and having all of the following (see List of Items Controlled) |
| 8D001 | “Software” specially designed or modified for the “development”, “production” or “use” of equipment or materials, controlled by 8A (except 8A018 or 8A992), 8B or 8C |
| 8D002 | Specific “software” specially designed or modified for the “development”, “production”, repair, overhaul or refurbishing (re-machining) of propellers specially designed for underwater noise reduction |
| 8D992 | “Software” specially designed or modified for the “development”, “production” or “use” of equipment controlled by 8A992 |
| 8E001 | “Technology” according to the General Technology Note for the “development” or “production” of equipment or materials, controlled by 8A (except 8A018 or 8A992), 8B or 8C |
| 8E002 | Other “technology” as follows (see List of Items Controlled) |
| 8E992 | “Technology” for the “development”, “production” or “use” of equipment controlled by 8A992 |

Category 9 - Aerospace and Propulsion

| | |
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| 9A001 | Aero gas turbine engines having any of the following (see List of Items Controlled). |
| 9A002 | ‘Marine gas turbine engines’ with an ISO standard continuous power rating of 24,245 kW or more and a specific fuel consumption not exceeding 0.219 kg/kWh in the power range from 35 to 100%, and specially designed assemblies and components therefor |
| 9A003 | Specially designed assemblies and components, incorporating any of the “technologies” controlled by 9E003.a, 9E003.h or 9E003.i, for any of the following gas turbine engine propulsion systems (see List of Items Controlled). |
| 9A004 | Space launch vehicles and “spacecraft” |
| 9A005 | Liquid rocket propulsion systems containing any of the systems or components, controlled by 9A006. (These items are subject to the export licensing authority of the U.S. Department of State, Directorate of Defense Trade Controls. See 22 CFR part 121.) |
| 9A006 | Systems and components, specially designed for liquid rocket propulsion systems. (These items are subject to the export licensing authority of the U.S. Department of State, Directorate of Defense Trade Controls. See 22 CFR part 121.) |
| 9A007 | Solid rocket propulsion systems. (These items are subject to the export licensing authority of the U.S. Department of State, Directorate of Defense Trade Controls. See 22 CFR part 121) |
| 9A008 | Components specially designed for solid rocket propulsion systems. (These items are subject to the export licensing authority of the U.S. Department of State, Directorate of Defense Trade Controls. See 22 CFR part 121) |
| 9A009 | Hybrid rocket propulsion systems. (These items are subject to the export licensing authority of the U.S. Department of State, Directorate of Defense Trade Controls. See 22 CFR part 121) |
| 9A010 | Specially designed components, systems and structures, for launch vehicles, launch vehicle propulsion systems or “spacecraft”. (These items are subject to the export licensing authority of the U.S. Department of State, Directorate of Defense Trade Controls. See 22 CFR part 121.) |
| 9A011 | Ramjet, scramjet or combined cycle engines, and specially designed components therefor. (These items are subject to the export licensing authority of the U.S. Department of State, Directorate of Defense Trade Controls. See 22 CFR part 121.) |
| 9A012 | Non-military “unmanned aerial vehicles,” (“UAVs”), associated systems, equipment and components, as follows (see List of Items Controlled) |
| 9A018 | Equipment on the Wassenaar Arrangement Munitions List |
| 9A101 | Turbojet and turbofan engines (including turbocompound engines), other than those controlled by 9A001, as follows (see List of Items Controlled) |
| 9A103 | Liquid propellant tanks specially designed for the propellants controlled in ECCNs 1C011, 1C111 or other liquid propellants used in “missiles”. (These items are subject to the export licensing authority of the U.S. Department of State, Directorate of Defense Trade Controls. See 22 CFR part 121) |

| ECCN | Description |
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| 9A104 | Sounding rockets, capable of a range of at least 300 km. (These items are subject to the export licensing authority of the U.S. Department of State, Directorate of Defense Trade Controls. See 22 CFR part 121) |
| 9A105 | Liquid propellant rocket engines. (These items are subject to the export licensing authority of the U.S. Department of State, Directorate of Defense Trade Controls. See 22 CFR part 121) |
| 9A106 | Systems or components, other than those controlled by 9A006, usable in "missiles", as follows (see List of Items Controlled), and specially designed for liquid rocket propulsion systems |
| 9A107 | Solid propellant rocket engines, usable in rockets with a range capability of 300 Km or greater, other than those controlled by 9A007, having total impulse capacity equal to or greater than 8.41×10^5 Ns, but less than 1.1×10^6 Ns. (These items are subject to the export licensing authority of the U.S. Department of State, Directorate of Defense Trade Controls. See 22 CFR part 121) |
| 9A108 | Solid rocket propulsion components, other than those controlled by 9A008, usable in rockets with a range capability of 300 Km or greater. (These items are subject to the export licensing authority of the U.S. Department of State, Directorate of Defense Trade Controls. See 22 CFR part 121) |
| 9A109 | Hybrid rocket motors, usable in rockets with a range capability of 300 Km or greater, other than those controlled by 9A009, and specially designed components therefor. (These items are subject to the export licensing authority of the U.S. Department of State, Directorate of Defense Trade Controls. See 22 CFR part 121) |
| 9A110 | Composite structures, laminates and manufactures thereof, other than those controlled by entry 9A010, specially designed for use in "missiles" or the subsystems controlled by entries 9A005, 9A007, 9A105.a, 9A106 to 9A108, 9A116, or 9A119 |
| 9A111 | Pulse jet engines, usable in rockets, missiles, or unmanned aerial vehicles capable of achieving a "range" equal to or greater than 300km, and specially designed components therefor. (These items are subject to the export licensing authority of the U.S. Department of State, Directorate of Defense Trade Controls. See 22 CFR part 121.) |
| 9A115 | Apparatus, devices and vehicles, designed or modified for the transport, handling, control, activation and launching of rockets, missiles, and unmanned aerial vehicles capable of achieving a "range" equal to or greater than 300 km. (These items are subject to the export licensing authority of the U.S. Department of State, Directorate of Defense Trade Controls. See 22 CFR part 121) |
| 9A116 | Reentry vehicles, usable in "missiles", and equipment designed or modified therefor. (These items are subject to the export licensing authority of the U.S. Department of State, Directorate of Defense Trade Controls. See 22 CFR part 121) |
| 9A117 | Staging mechanisms, separation mechanisms, and interstages therefor, usable in "missiles". (These items are subject to the export licensing authority of the U.S. Department of State, Directorate of Defense Trade Controls. See 22 CFR part 121) |
| 9A118 | Devices to regulate combustion usable in engines which are usable in rockets with a range capability greater than 300 Km or greater, controlled by 9A011 or 9A111. (These items are subject to the export licensing authority of the U.S. Department of State, Directorate of Defense Trade Controls. See 22 CFR part 121) |
| 9A119 | Individual rocket stages, usable in rockets with a range capability greater than 300 Km or greater, other than those controlled by 9A005, 9A007, 9A009, 9A105, 9A107 and 9A109. (These items are subject to the export licensing authority of the U.S. Department of State, Directorate of Defense Trade Controls. See 22 CFR part 121) |
| 9A120 | Complete unmanned aerial vehicles, not specified in 9A012, having all of the following |
| 9A980 | Nomilitary mobile crime science laboratories; and parts and accessories, n.e.s. |
| 9A990 | Diesel engines, n.e.s., and tractors and specially designed parts therefor, n.e.s. |
| 9A991 | "Aircraft", n.e.s., and gas turbine engines not controlled by 9A001 or 9A101 and parts and components, n.e.s. |
| 9A992 | Complete canopies, harnesses, and platforms and electronic release mechanisms therefor, except such types as are in normal sporting use |
| 9B001 | Equipment, tooling and fixtures, specially designed for manufacturing gas turbine blades, vanes or "tip shroud" castings, as follows (see List of Items Controlled) |
| 9B002 | On-line (real time) control systems, instrumentation (including sensors) or automated data acquisition and processing equipment, having all of the following (See List of Items Controlled). |
| 9B003 | Equipment specially designed for the "production" or test of gas turbine brush seals designed to operate at tip speeds exceeding 335 m/s and temperatures in excess of 773 K (500°C), and specially designed components or accessories therefor |
| 9B004 | Tools, dies or fixtures, for the solid state joining of "superalloy", titanium or intermetallic airfoil-to-disk combinations described in 9E003.a.3 or 9E003.a.6 for gas turbines |
| 9B005 | On-line (real time) control systems, instrumentation (including sensors) or automated data acquisition and processing equipment, specially designed for use with any of the following (see List of Items Controlled) |
| 9B006 | Acoustic vibration test equipment capable of producing sound pressure levels of 160 Db or more (referenced to 20 µPa) with a rated output of 4 kW or more at a test cell temperature exceeding 1,273 K (1,000°C), and specially designed quartz heaters therefor |
| 9B007 | Equipment specially designed for inspecting the integrity of rocket motors and using Non-Destructive Test (NDT) techniques other than planar x-ray or basic physical or chemical analysis. |
| 9B008 | Direct measurement wall skin friction transducers specially designed to operate at a test flow total (stagnation) temperature exceeding 833 K (560°C). |

| ECCN | Description |
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| 9B009 | Tooling specially designed for producing turbine engine powder metallurgy rotor components capable of operating at stress levels of 60% of Ultimate Tensile Strength (UTS) or more and metal temperatures of 873 K (600°C) or more |
| 9B010 | Equipment specially designed for the production of "UAVs" and associated systems, equipment and components, controlled by 9A012 |
| 9B105 | Wind tunnels for speeds of Mach 0.9 or more, usable for rockets, missiles, or unmanned aerial vehicles capable of achieving a "range" equal to or greater than 300 km and their subsystems |
| 9B106 | Environmental chambers usable for rockets, missiles, or unmanned aerial vehicles capable of achieving a "range" equal to or greater than 300 km and their subsystems, as follows (see List of Items Controlled) |
| 9B115 | Specially designed "production equipment" for the systems, sub-systems and components controlled by 9A004 to 9A009, 9A011, 9A101, 9A104 to 9A109, 9A111, 9A116 to 9A119 |
| 9B116 | Specially designed "production facilities" for the systems, sub-systems, and components controlled by 9A004 to 9A009, 9A011, 9A012, 9A101, 9A104 to 9A109, 9A111, 9A116 to 9A119 |
| 9B117 | Test benches and test stands for solid or liquid propellant rockets, motors or rocket engines |
| 9B990 | Vibration test equipment and specially designed parts and components, n.e.s. |
| 9B991 | Specially designed equipment, tooling or fixtures, not controlled by 9B001, as described in the List of Items Controlled, for manufacturing or measuring gas turbine blades, vanes or tip shroud castings |
| 9C110 | Resin impregnated fiber preprints and metal coated fiber preforms therefor, for composite structures, laminates and manufactures specified in 9A110, made either with organic matrix or metal matrix utilizing fibrous or filamentary reinforcements having a "specific tensile strength" greater than 7.62 x 104 m and a "specific modulus" greater than 3.18 x 106 m |
| 9D001 | "Software" specially designed or modified for the "development" of equipment or "technology", controlled by 9A (except 9A018, 9A990 or 9A991), 9B (except 9B990 or 9B991) or 9E003 |
| 9D002 | "Software" specially designed or modified for the "production" of equipment controlled by 9A (except 9A018, 9A990, or 9A991) or 9B (except 9B990 or 9B991) |
| 9D003 | "Software" incorporating "technology" specified by 9E003.h and used in "FADEC Systems" for propulsion systems controlled by 9A (except 9A018, 9A990 or 9A991) or equipment controlled by 9B (except 9B990 or 9B991). |
| 9D004 | Other "software" as follows (see List of Items Controlled) |
| 9D018 | "Software" for the "use" of equipment controlled by 9A018 |
| 9D101 | "Software" specially designed or modified for the "use" of commodities controlled by 9B105, 9B106, 9B116, or 9B117 |
| 9D103 | "Software" specially designed for modelling, simulation or design integration of "missiles", or the subsystems controlled by 9A005, 9A007, 9A105.a, 9A106, 9A108, 9A116 or 9A119. (This entry is subject to the export licensing authority of the U.S. Department of State, Directorate of Defense Trade Controls. See 22 CFR part 121) |
| 9D104 | "Software" specially designed and modified for the "use" of equipment controlled by 9A001, 9A005, 9A006.d, 9A006.g, 9A007.a, 9A008.d, 9A009.a, 9A010.d, 9A011, 9A012 (for MT controlled items only), 9A101, 9A105, 9A106.c and .d, 9A107, 9A108.c, 9A109, 9A111, 9A115.a, 9A116.d, 9A117, or 9A118 |
| 9D105 | "Software" that coordinates the function of more than one subsystem, specially designed or modified for "use" in "missiles." (These items are subject to the export licensing authority of the U.S. Department of State, Directorate of Defense Trade Controls. See 22 CFR part 121) |
| 9D990 | "Software", n.e.s., for the "development" or "production" of equipment controlled by 9A990 or 9B990 |
| 9D991 | "Software", for the "development" or "production" of equipment controlled by 9A991 or 9B991 |
| 9E001 | "Technology" according to the General Technology Note for the "development" of equipment or "software", controlled by 9A001.b, 9A004 to 9A012, 9B (except 9B990 or 9B991), or 9D (except 9D990 or 9D991) |
| 9E002 | "Technology" according to the General Technology Note for the "production" of equipment controlled by 9A001.b, 9A004 to 9A011 or 9B (except 9B990 or 9B991) |
| 9E003 | Other "technology" as follows |
| 9E018 | "Technology" for the "development", "production", or "use" of equipment controlled by 9A018 |
| 9E101 | "Technology" according to the General Technology Note for the "development", "production", or "use" of commodities or software controlled by 9A012, 9A101, 9A104 to 9A111, 9A115 to 9A119, 9C110, 9D101, 9D103, 9D104 or 9D105. |
| 9E102 | "Technology" according to the General Technology Note for the "use" of space launch vehicles specified in 9A004, or commodities or software controlled by 9A005 to 9A012, 9A101, 9A104 to 9A111, 9A115 to 9A119, 9B105, 9B106, 9B115, 9B116, 9B117, 9D101, 9D103, 9D104 or 9D105 |
| 9E990 | "Technology", n.e.s., for the "development" or "production" or "use" of equipment controlled by 9A990 or 9B990 |
| 9E991 | "Technology", for the "development", "production" or "use" of equipment controlled by 9A991 or 9B991 |
| 9E993 | Other "technology" not described in 9E003 |